



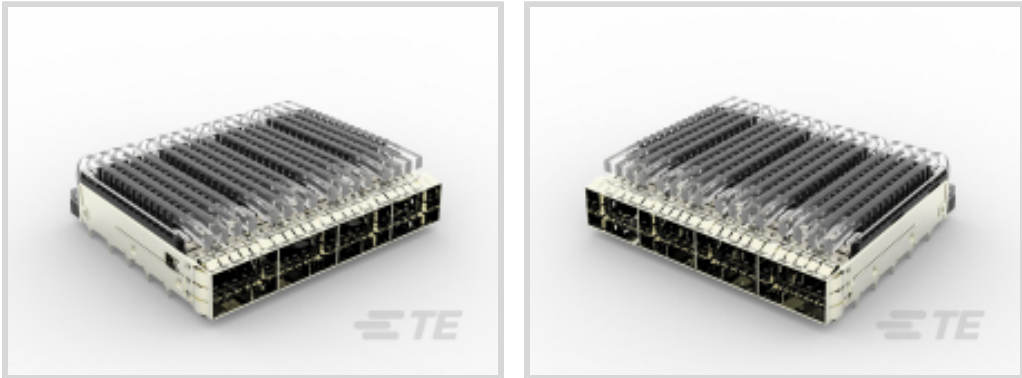
zQSFP+/QSFP28

TE Internal #: 2170790-1

QSFP28/56, Cage Assembly, Signal, Operating Temperature Range
-40 – 85 °C [-40 – 185 °F], 4 Ports, Port Matrix Configuration 1 x 4,
Included Lightpipe

[View on TE.com >](#)

Connectors > Pluggable IO Connectors & Cages



Form Factor: **QSFP28/56**
Pluggable I/O Product Type: **Cage Assembly**
Sealable: **No**
Circuit Application: **Signal**
Operating Temperature Range: **-40 – 85 °C [-40 – 185 °F]**

Features

Product Type Features

Cage Type	Ganged
Thermal Accessory Type Included	Heat Sink
Form Factor	QSFP28/56
Pluggable I/O Product Type	Cage Assembly
Sealable	No

Configuration Features

Number of Rear EONs per Port Column	1
Number of Ports	4
Port Matrix Configuration	1 x 4

Body Features

Heat Sink Style	Pin
Heat Sink Finish	Anodized Black
	.256 in
Heat Sink Height Class	SAN

Contact Features

PCB Contact Termination Area Plating Material	Tin
---	-----

Termination Features



Termination Method to PCB	Through Hole - Press-Fit
Termination Post & Tail Length	2.05 mm[.081 in]

Housing Features

Cage Material	Nickel Silver
---------------	---------------

Dimensions

PCB Thickness (Recommended)	1.57 mm[.062 in]
-----------------------------	------------------

Usage Conditions

Operating Temperature Range	-40 – 85 °C[-40 – 185 °F]
-----------------------------	---------------------------

Operation/Application

Pluggable I/O Applications	SFP+ Stacked Belly-to-Belly
Circuit Application	Signal

Industry Standards

UL Flammability Rating	UL 94V-0
------------------------	----------

Packaging Features

Packaging Method	Box & Tray
------------------	------------

Other

Included Lightpipe	Yes
EMI Containment Feature Type	Internal/External EMI Springs

Product Compliance

For compliance documentation, visit the product page on TE.com>

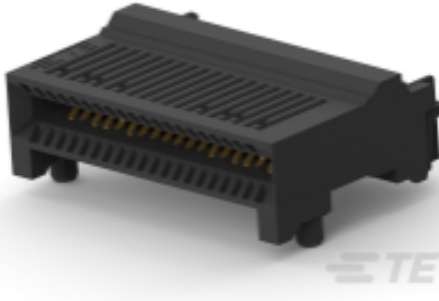
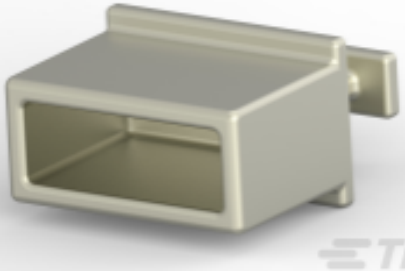
EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Compliant
China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JAN 2025 (247) Candidate List Declared Against: JUNE 2024 (241) Does not contain REACH SVHC
Halogen Content	Not Low Halogen - contains Br or Cl > 900 ppm.
Solder Process Capability	Not applicable for solder process capability

Product Compliance Disclaimer



This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DIBP, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical and electronic equipment products will be CE marked as required by Directive 2011/65/EU. Components may not be CE marked. Additionally, the part numbers that TE has identified as EU ELV compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the REACH Regulation, the information TE provides on SVHC in articles for this part number is based on the latest European Chemicals Agency (ECHA) ‘Guidance on requirements for substances in articles’ posted at this URL: <https://echa.europa.eu/guidance-documents/guidance-on-reach>

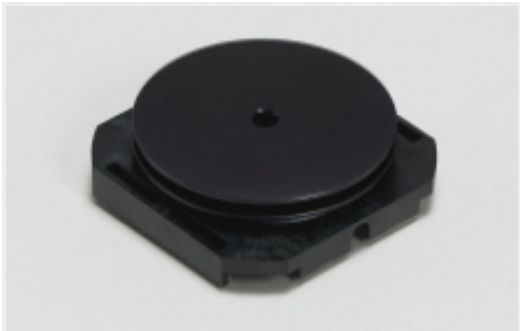
Compatible Parts

 TE Part # CAT-Q17-N490333 QSFP56-Four SFP56 Cable Assembly: 26 AWG	 TE Part # CAT-C11-N490333 QSFP28-Four SFP+ Cable Assembly: 30 AWG	 TE Part # CAT-C11-N49 QSFP28-Two QSFP28 Cable Assembly: 30 AWG	 TE Part # CAT-C11-N490325 QSFP28-Four SFP+ Cable Assembly: 26 AWG
 TE Part # CAT-C11-Z806726 QSFP28 to QSFP28 Cable Assembly: 30 AWG	 TE Part # CAT-Q17-N49011 QSFP56-Four SFP56 Cable Assembly: 30 AWG	 TE Part # 1551920-2 zQSFP+ connector assembly	 TE Part # CAT-Q17-N490325 QSFP56 to QSFP56 Cable Assembly: 30 AWG
 TE Part # 2215040-4 ASSY, STNG TL, CONN 2170790-1	 TE Part # CAT-C11-Z8 QSFP28 to QSFP28 Cable Assembly: 26 AWG	 TE Part # CAT-Q17-N49033 QSFP56-Two QSFP56 Cable Assembly: 30 AWG	 TE Part # CAT-C11-Q17 QSFP56 to QSFP56 Cable Assembly: 26 AWG
 TE Part # 1888810-2 EMI/Dust Cover,XFP And QSFP			

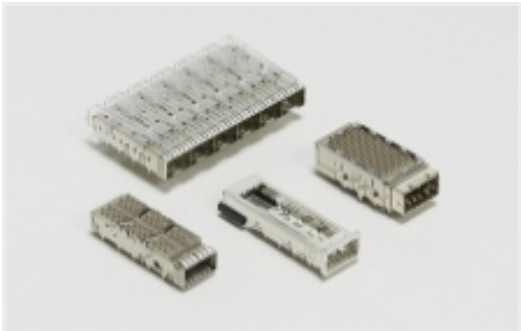


Also in the Series

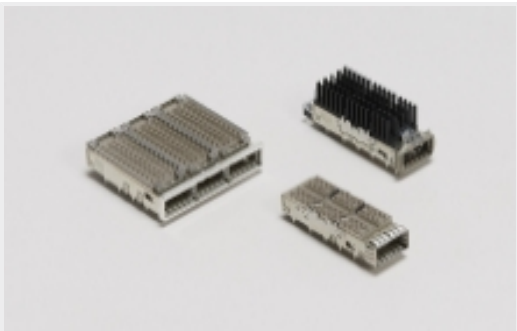
zQSFP+/QSFP28



Heat Sinks(7)



Pluggable IO Connectors & Cages(424)



QSFP, QSFP+ & zQSPF+(424)

Customers Also Bought



TE Part #2170826-2
CAGE ASSEMBLY,1X2, QSFP28,
SPRING, HS, LP



TE Part #CAT-Z8-P650796
zSFP+ Stacked Cage Assembly: EMI
Spring



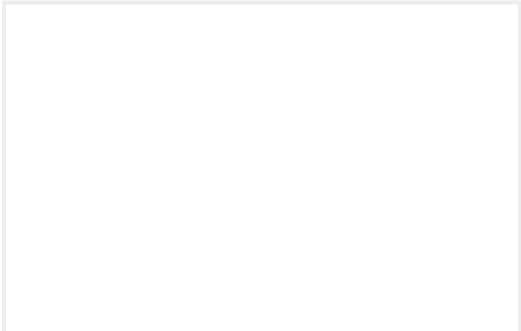
TE Part #2170088-1
ZSFP+ Connector,30u"



TE Part #2308107-7
DDR4 DIMM 288 PIN TH TYPE



TE Part #2299940-1
ZQSFP+ STACKED REC ASSEMBLY
2X1,4LP HS



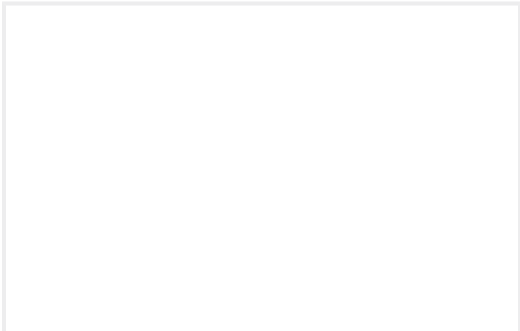
TE Part #1-2299924-3
ZQSFP+ STACKED REC ASSEMBLY
2X3, HS



TE Part #1551920-2
zQSFP+ connector assembly



TE Part #2299870-3
THERMAL ZQSFP+ STACKED REC
ASSEMBLY 2X2



TE Part #2302014-1
ZSFP+ 1X8 CAGE ASSY, PRESS-FIT,
LP, HS

Documents

Product Drawings

CAGE ASSY, 1X4, QSFP28, SPRING, HS, LP

English

CAD Files

3D PDF

3D



Customer View Model

[ENG_CVM_CVM_2170790-1_A.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_2170790-1_A.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_2170790-1_A.3d_stp.zip](#)

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

Datasheets & Catalog Pages

[QSFP28/56 and zQSFP+ Interconnects](#)

English

Product Specifications

[Application Specification](#)

English